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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/974,576	10/09/2001	Aris Papasakellariou	TI-32075	8287
23494	23494 7590 11/22/2004		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			GHEBRETINSAE, TEMESCHEN	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			ART UNIT	PAPER NUMBER
			2637	

DATE MAILED: 11/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	,	Application No.	Applicant(s)			
Office Action Summary		09/974,576	PAPASAKELLARIOU ET AL.			
		Examiner	Art Unit			
	-	Temesghen Ghebretinsae	2637			
Period fo	The MAILING DATE of this communication apor Reply	opears on the cover sheet with the	correspondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPI MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a report of the provision of the period for reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) dad will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 09.	July 2004.				
2a)⊠	Pa) ☐ This action is FINAL . 2b) ☐ This action is non-final.					
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)⊠	Claim(s) 1-14 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1,2 and 10-14 is/are rejected. Claim(s) 3-9 is/are objected to. Claim(s) are subject to restriction and/	awn from consideration.				
Applicati	on Papers	••				
9)🖂	The specification is objected to by the Examin	er.				
10)⊠	10)⊠ The drawing(s) filed on is/are: a)□ accepted or b)⊠ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[The oath or declaration is objected to by the E	examiner. Note the attached Office	e Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureatee the attached detailed Office action for a list	nts have been received. Its have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage			
	·					
Attachmen	t(s)					
_	e of References Cited (PTO-892)	4) Interview Summary				
3) 🔲 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 ' No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

- 1. Application number (checked for accuracy, including series code and serial no.).
- 2. Group art unit number (copied from most recent Office communication).
- 3. Filing date.
- 4. Name of the examiner who prepared the most recent Office action.
- 5. Title of invention.
- 6. Confirmation number (See MPEP § 503).

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "the multiplier coupled to the decision circuit and channel estimation unit " of claim 7 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement

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Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. The amendment filed 7/9/04 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material, which is not supported by the original disclosure, is as follows: fig.6 and fig.7 and page 13, lines 12-15.

Applicant is required to cancel the new matter in the reply to this Office Action.

Claim Rejections - 35 USC § 112

4. Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1(h) "the despread received signal path" lack clear antecedent basis.

Claim 2 is unclear as claimed.

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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6. Claims 10-12,14 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The originally filed specification does not have support for claims 10-12,14 as claimed now. See fig.5 and page 13, lines 19-20.

Allowable Subject Matter

7. Claims 1-2 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated by the prior art fig.4 of the present application.
- 10. Fig.4 discloses an interference cancellation circuit for use in spread spectrum CDMA receiver comprising: a subtractor coupled to a first and second despreader circuits for subtracting a despread regenerated signal estimate from the despread receive spread spectrum signal.
- 11. Claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated by Schilling et al (5,553,062).

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12. Schilling discloses an interference cancellation circuit for use in spread spectrum CDMA receiver comprising: a subtractor coupled to a first and second despreader circuits for subtracting a despread regenerated signal estimate from the despread receive spread spectrum signal. See figs.2-14.

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Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Temesghen Ghebretinsae whose telephone number is 571-272-3017. The examiner can normally be reached on Monday-Friday from 8 to 6. The examiner can also be reached on alternate

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on 571-272-2988. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T.G.

11/16/04.

Temesghen Ghebretinsae

Primary Examiner Art Unit 2637

TEMESCHEN BHEBRETINSAE PRIMARY EXAMINER

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